

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 January 2005 (06.01.2005)

PCT

(10) International Publication Number
WO 2005/000105 A2

(51) International Patent Classification⁷:

A61B

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:

PCT/US2004/020159

(22) International Filing Date: 22 June 2004 (22.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

10/608,862

27 June 2003 (27.06.2003) US

(71) Applicant (for all designated States except US): **TELE-CATH** [US/US]; 325 Sharon Park Drive #115, Menlo Park, CA 94025 (US).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SCHNEIDER, Michael, Bret** [US/US]; 325 Sharon Park Drive #11, Menlo Park, CA 94025 (US). **MISHELEVICH, David, J.** [US/US]; 7301 Vista Del Mar, Unit B111, Playa Del Rey, CA 90293 (US).

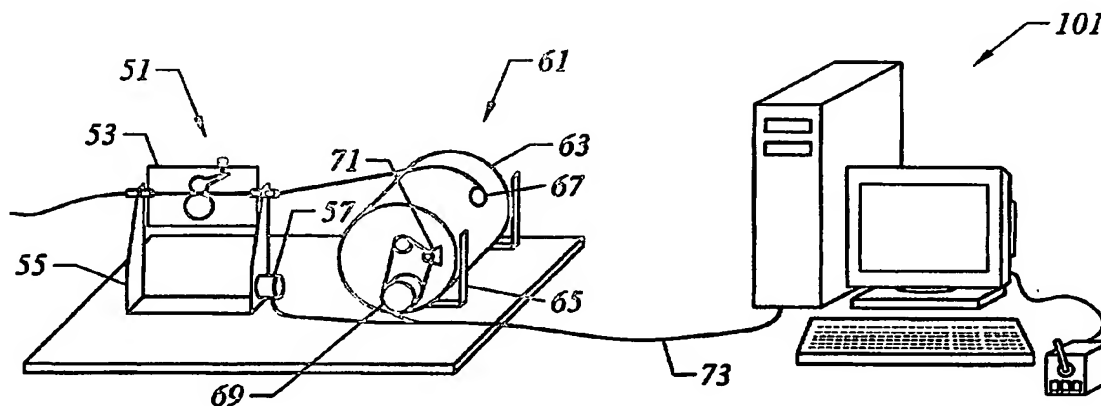
Published:

— without international search report and to be republished upon receipt of that report

(74) Agent: **RITTER, Michael, J.**; Ritter, Lang & Kaplan LLP, Suite D1, 12930 Saratoga Ave., Saratoga, CA 95070 (US).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPUTER-ASSISTED MANIPULATION OF CATHETERS AND GUIDE WIRES



(57) Abstract: Computer-assisted methods and systems for manipulating elongate members during medical procedures are provided. Electromechanical devices are computer driven to manipulate the elongate members, which a user can direct through computer interfaces like graphical user interfaces and pointing devices.